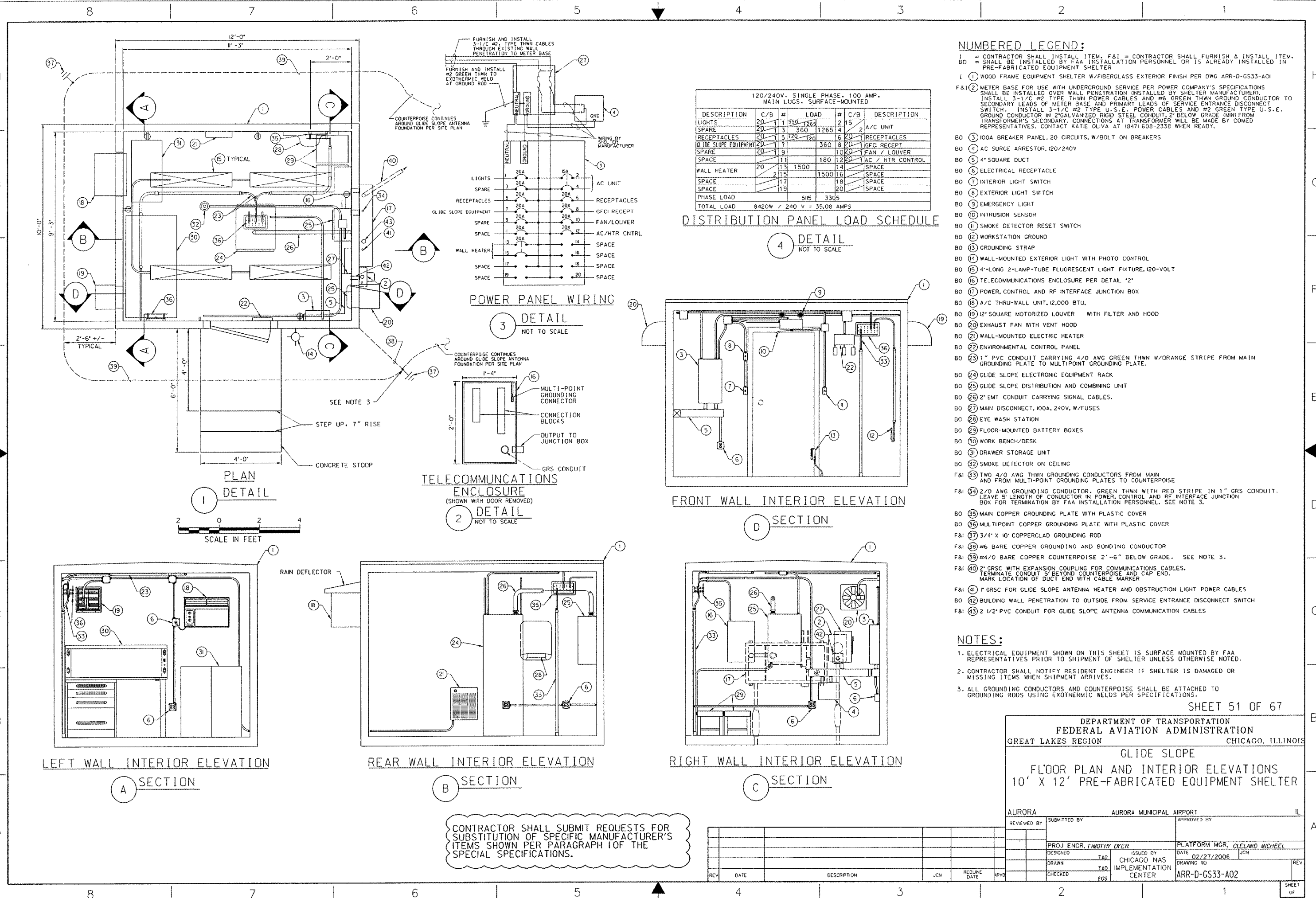


THIS DRAWING PRODUCED BY THE GREAT LAKES REGION MICROSTATION SYSTEM

K:\Aurora\10428504\Draw\Sheet\FAA LS DDTs - Out.mxd 5/10/06 JRR-0-0533-002.dwg
5/10/2006 5:05:55 PM JRR



120/240V, SINGLE PHASE, 100 AMP, MAIN LUGS, SURFACE-MOUNTED

DESCRIPTION	C/B	#	LOAD	#	C/B	DESCRIPTION		
LIGHTS	20	1	550	1265	2	15	A/C UNIT	
SPARE	20	1	3	360	1265	4		
RECEPTACLES	20	1	5	720	120	6	20	RECEPTACLES
GLIDE SLOPE EQUIPMENT	20	1	7		360	8	20	GFCI RECEPT
SPARE	20	1	9			10	20	FAN / LOUVER
SPARE		11		180	12	20		AC / HTR CONTROL
WALL HEATER	20	13	1500		14			SPACE
SPACE		17			18			SPACE
SPACE		19			20			SPACE
PHASE LOAD			515		3305			
TOTAL LOAD			8420W / 240 V = 35.08 AMPS					

DISTRIBUTION PANEL LOAD SCHEDULE

- NUMBERED LEGEND:**
- 1 = CONTRACTOR SHALL INSTALL ITEM, F&I = CONTRACTOR SHALL FURNISH & INSTALL ITEM
 - BO = SHALL BE INSTALLED BY FAA INSTALLATION PERSONNEL OR IS ALREADY INSTALLED IN PRE-FABRICATED EQUIPMENT SHELTER
 - 1 (1) WOOD FRAME EQUIPMENT SHELTER W/FIBERGLASS EXTERIOR FINISH PER DWG ARR-D-GS33-A01
 - F&I (2) METER BASE FOR USE WITH UNDERGROUND SERVICE PER POWER COMPANY'S SPECIFICATIONS SHALL BE INSTALLED OVER WALL PENETRATION (INSTALLED BY SHELTER MANUFACTURER). INSTALL 3-1/8" #2 TYPE THWN POWER CABLES AND #6 GREEN THWN GROUND CONDUCTOR TO SECONDARY LEADS OF METER BASE AND PRIMARY LEADS OF SERVICE ENTRANCE DISCONNECT SWITCH. INSTALL 3-1/8" #2 TYPE U.S.E. POWER CABLES AND #2 GREEN TYPE U.S.E. GROUND CONDUCTOR IN 2" GALVANIZED RIGID STEEL CONDUIT, 2" BELOW GRADE (MINI) FROM TRANSFORMER'S SECONDARY. CONNECTIONS AT TRANSFORMER WILL BE MADE BY COMED REPRESENTATIVES. CONTACT KATE OLIVA AT (847) 608-2338 WHEN READY.

- BO (3) 100A BREAKER PANEL, 20 CIRCUITS, W/BOLT ON BREAKERS
- BO (4) AC SURGE ARRESTOR, 120/240V
- BO (5) 4" SQUARE DUCT
- BO (6) ELECTRICAL RECEPTACLE
- BO (7) INTERIOR LIGHT SWITCH
- BO (8) EXTERIOR LIGHT SWITCH
- BO (9) EMERGENCY LIGHT
- BO (10) INTRUSION SENSOR
- BO (11) SMOKE DETECTOR RESET SWITCH
- BO (12) WORKSTATION GROUND
- BO (13) GROUNDING STRAP
- BO (14) WALL-MOUNTED EXTERIOR LIGHT WITH PHOTO CONTROL
- BO (15) 4'-LONG 2-LAMP-TUBE FLUORESCENT LIGHT FIXTURE, 120-VOLT
- BO (16) TELECOMMUNICATIONS ENCLOSURE PER DETAIL '2'
- BO (17) POWER, CONTROL AND RF INTERFACE JUNCTION BOX
- BO (18) A/C THRU-WALL UNIT, 12,000 BTU
- BO (19) 12" SQUARE MOTORIZED LOUVER WITH FILTER AND HOOD
- BO (20) EXHAUST FAN WITH VENT HOOD
- BO (21) WALL-MOUNTED ELECTRIC HEATER
- BO (22) ENVIRONMENTAL CONTROL PANEL
- BO (23) 1" PVC CONDUIT CARRYING 4/0 AWG GREEN THWN W/ORANGE STRIPE FROM MAIN GROUNDING PLATE TO MULTIPOINT GROUNDING PLATE.
- BO (24) GLIDE SLOPE ELECTRONIC EQUIPMENT RACK
- BO (25) GLIDE SLOPE DISTRIBUTION AND COMBINING UNIT
- BO (26) 2" EMT CONDUIT CARRYING SIGNAL CABLES.
- BO (27) MAIN DISCONNECT, 100A, 240V, W/FUSES
- BO (28) EYE WASH STATION
- BO (29) FLOOR-MOUNTED BATTERY BOXES
- BO (30) WORK BENCH/DESK
- BO (31) DRAWER STORAGE UNIT
- BO (32) SMOKE DETECTOR ON CEILING
- F&I (33) TWO 4/0 AWG THWN GROUNDING CONDUCTORS FROM MAIN AND FROM MULTI-POINT GROUNDING PLATES TO COUNTERPOISE
- F&I (34) 2/0 AWG GROUNDING CONDUCTOR, GREEN THWN WITH RED STRIPE IN 1" GRS CONDUIT. LEAVE 5' LENGTH OF CONDUCTOR IN POWER, CONTROL AND RF INTERFACE JUNCTION BOX FOR TERMINATION BY FAA INSTALLATION PERSONNEL. SEE NOTE 3.
- BO (35) MAIN COPPER GROUNDING PLATE WITH PLASTIC COVER
- BO (36) MULTIPPOINT COPPER GROUNDING PLATE WITH PLASTIC COVER
- F&I (37) 3/4" X 10' COPPERCLAD GROUNDING ROD
- F&I (38) #6 BARE COPPER GROUNDING AND BONDING CONDUCTOR
- F&I (39) #4/0 BARE COPPER COUNTERPOISE 2'-6" BELOW GRADE. SEE NOTE 3.
- F&I (40) 2" GRS WITH EXPANSION COUPLING FOR COMMUNICATIONS CABLES. TERMINATE CONDUIT 5' BEYOND COUNTERPOISE AND CAP END. MARK LOCATION OF DUCT END WITH CABLE MARKER
- F&I (41) 1" GRS FOR GLIDE SLOPE ANTENNA HEATER AND OBSTRUCTION LIGHT POWER CABLES
- BO (42) BUILDING WALL PENETRATION TO OUTSIDE FROM SERVICE ENTRANCE DISCONNECT SWITCH
- F&I (43) 2 1/2" PVC CONDUIT FOR GLIDE SLOPE ANTENNA COMMUNICATION CABLES

- NOTES:**
- ELECTRICAL EQUIPMENT SHOWN ON THIS SHEET IS SURFACE MOUNTED BY FAA REPRESENTATIVES PRIOR TO SHIPMENT OF SHELTER UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL NOTIFY RESIDENT ENGINEER IF SHELTER IS DAMAGED OR MISSING ITEMS WHEN SHIPMENT ARRIVES.
 - ALL GROUNDING CONDUCTORS AND COUNTERPOISE SHALL BE ATTACHED TO GROUNDING RODS USING EXOTHERMIC WELDS PER SPECIFICATIONS.

CONTRACTOR SHALL SUBMIT REQUESTS FOR SUBSTITUTION OF SPECIFIC MANUFACTURER'S ITEMS SHOWN PER PARAGRAPH 1 OF THE SPECIAL SPECIFICATIONS.

SHEET 51 OF 67

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
GREAT LAKES REGION CHICAGO, ILLINOIS

GLIDE SLOPE
FLOOR PLAN AND INTERIOR ELEVATIONS
10' X 12' PRE-FABRICATED EQUIPMENT SHELTER

AURORA		AURORA MUNICIPAL AIRPORT		IL
REVIEWED BY	SUBMITTED BY	APPROVED BY		
DESIGNED	TAD	PLATFORM MGR,	CLELAND MICHEEL	
DATE	02/27/2006	JCH		
DRAWN	TAD	ISSUED BY	CHICAGO NAS	
CHECKED	EGS	IMPLEMENTATION	CENTER	
REV	DATE	DESCRIPTION	JCH	REQ'D DATE

ARR-D-GS33-A02